

**Non-cyclic chelating agents based on aminodialkylphosphoros oxides for the preparation of technetium or rhenium complexes.****Publication number:** DE4408729**Publication date:** 1995-09-21**Inventor:** STAHL WILHELM DR (DE); WALCH AXEL DR (DE);  
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PUETTER DIETRICH (DE)**Applicant:** HOECHST AG (DE)**Classification:****- international:** **A61K51/00; A61K51/04; C07B59/00; C07F9/38;  
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Substd. aminodialkylphosphonic acids of formula (I) are new: R<1> = OH, NH<sub>2</sub>, or SH; R<2> = H, OH, NH<sub>2</sub>, SH, 1-4C alkyl, Ph, Bz, 1-4C alkoxy, OPh, OBz, 1-4C alkylamino, PhNH<sub>2</sub>, BzNH<sub>2</sub>, 1-4C mercaptoalkyl, thiophenyl, or mercaptobenzyl; R<3>, R<3>' = H or 1-4C alkyl; R<4> = 1-6C alkylene, 7-15C aralkylene, or a direct bond; R<5> = NH<sub>2</sub>, OH, SH, CH<sub>2</sub>, CH(R<7>), CH(NH<sub>2</sub>), CH(OH), or an ester or amide gp; R<6> = N<sub>3</sub>, halo, or SH; or COOH when R<5> = CH<sub>2</sub>, CH(R<7>), (CH(NH<sub>2</sub>)) or CH(OH); 6-vinyl-pyridyl-2-ylmethyl or haloacetyl when R<5> = NH<sub>2</sub>, OH or SH; or 1,4-dioxo-but-2-en-1,4-diyl or =C=S when R<5> = NH<sub>2</sub>; R<7> = side-chain of natural amino acid.

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